Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: Yerington Second Step Hydrogeologic Framework Assessment **Project Number:** 132025

Soil Boring: ☐ Monitoring Well: ☒ Piezometer: ☐ **Boring/Well Number:** B/W-27D **Sheet** 1 **of** 14

Boring Location: 0.2 mi west on Luzier Ln., turn right at fence end, 0.5 mi. north right side of dirt road	**Northing:** **Easting:**
Drilling Contractor: Boart Longyear **Driller:** R. Salois	**Top of PVC Elevation:** feet amsl **Ground Surface Elevation:** feet amsl
Drilling Equipment: GP24-300RS **Borehole Diameter:** 6-inches	**Date Started:** 1/19/08 **Date Finished:** 2/6/08
Drilling Method: Sonic **Drilling Fluid:** Water	**Completed Depth:** 250 fbgs **Water Depth:** fbmp
Sampling Method: Core Barrel	WELL CONSTRUCTION
Well Seal: Bentonite and Cement	**Type and Diameter of Well Casing:** 2-inch Schedule 80 PVC
Logged By: C. Strauss	**Slot Size:** 0.010 inch **Filter Material:** #10-20 Silica Sand

Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
		SM	**Silty Sand (0 - 4)** Dry, loose, no odor. Primarily medium to fine sand with ~10% gravel to 10mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.
		SP	**Poorly Graded Sand (4 - 6)** Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 5mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.
5		SW	**Well-Graded Sand (6 - 8)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.
		SM	**Silty Sand (8 - 11)** Dry to moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					All depths are below land surface unless stated otherwise.
10		SM	**Silty Sand with Gravel (11 - 16)** Dry to moist, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					WELL DESIGN for B/W-27D: PVC Stickup: feet. Cement - Bentonite Grout: 0-218 feet Bentonite Chips: 218-223 feet No. 60 Silica Sand: 223-225 feet #10-20 Silica Sand Filter Pack: 225-250 feet 2-inch Nominal Schedule 80 PVC 0.010 Slotted Screen: 230-250 feet Native Collapse: NA feet Additional Bentonite Fill: NA feet Number of wells at this location: 2 Screen intervals for paired wells are labeled at the installed depths.

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
								B/W-27S screened from 16 to 36 feet
		SC	**Clayey Sand (16 - 17)** Moist, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~30% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
		SW	**Well-Graded Sand (17 - 20)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
20		SP	**Poorly Graded Sand (20 - 21)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SM	**Silty Sand (21 - 23)** Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl. There are some small lenses of higher percent fines located throughout section.					
		SC	**Clayey Sand (23 - 27.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~30% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
25								
		SC	**Clayey Sand (27.5 - 30)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
30								
		SW	**Well-Graded Sand (30 - 36)** Saturated, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.	B/W-27D@30-35				

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
35								
		CL	**Clayey Sand (36 - 40)** Moist, very dense, no odor. Primarily silt and clay with ~50% medium to fine grain sand to 1mm. The sand is angular to subangular. The fines have high plasticity, have a brown color, and do not react to HCl.					
40		SM	**Silty Sand (40 - 44)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~25% clay and silt. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
		SC	**Clayey Sand (44 - 47)** Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% clay and silt. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
45		SW	**Well-Graded Sand (47 - 48.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		CL	**Sandy Lean Clay (48.5 - 49.5)** Dry to moist, very dense, no odor. Primarily silt and clay with ~45% medium to fine grained sand with a maximum grain size of 2mm. The sand is angular to subangular. The fines have medium plasticity and toughness, have a brown and rust color, and do not react to HCl.					
50		CL						
		SW	**Clayey Gravel (49.5 - 50)** Dry to moist, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~20% clay and silt. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and have no reaction to a weak reaction to HCl.	B/W-27D@50-55				

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55			**Well-Graded Sand (50 - 56.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have no reaction to a weak reaction to HCl.					
		SC	**Clayey Sand with Gravel (56.5 - 57.5)** Moist, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
60		SW	**Well-Graded Sand (57.5 - 65)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
65		SC	**Clayey Sand with Gravel (65 - 67.5)** Dry to moist, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SW-SM	**Well-Graded Sand with Silt (67.5 - 73.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
70								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
				B/W-27D@70-75				
		SP	**Poorly Graded Sand (73.5 - 75)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% coarse grain sand to 5 mm and ~15% clay and silt. The sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
75		SC	**Clayey Sand (75 - 81)** Moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
80		SM	**Silty Sand (81 - 83)** Moist, dense, no odor. Primarily medium to fine sand with a maximum grain size of 2 mm and ~35% clay and silt. The sand is angular to subangular. The fines are nonplastic to low plasticity and toughness, have a gray color with tan banding, and do not react to HCl.					
		SC	**Clayey Sand (83 - 87)** Moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
85		SW-SM	**Well-Graded Sand with Silt (87 - 93)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl. There are a few more fines toward top of section and ~20% gravel toward 92-93 foot section.					
90								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
95		SC SP-SM	**Clayey Sand (93 - 93.5)** Moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~25% clay and silt. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl. **Poorly Graded Sand with Silt (93.5 - 100)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.	B/W-27D@95-100				
100		SP-SM	**Poorly Graded Sand with Silt (100 - 102.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% coarse grain sand to 5 mm and ~15% clay and silt. The sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		CL	**Lean Clay (102.5 - 104.5)** Moist, very dense, no odor. Primarily silt and clay with ~15% medium grain sand to 1mm and ~30% fine grain sand. The sand is angular to subangular. The fines have medium plasticity and toughness, and have no reaction to a weak reaction to HCl.					
105		SM	**Silty Sand (104.5 - 110)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
110								

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
115		SW-SM	**Well-Graded Sand with Silt (110 - 116)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.	B/W-27D@112-117				
		SC	**Clayey Sand (116 - 117.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
120		SW-SM	**Well-Graded Sand with Silt (117.5 - 121)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SC	**Clayey Sand (121 - 125)** Moist, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
125		SP-SM	**Well-Graded Sand with Silt (125 - 131)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
130								
		SW	**Well-Graded Sand (131 - 132.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		CL	**Lean Clay with Sand (132.5 - 135)** Moist, very dense, no odor. Primarily silt and clay with ~45% medium to fine grain sand to ~1mm. The sand is angular to subangular. The fines have medium plasticity and toughness, have a brown color, and do not react to HCl.					
135		SW-SM	**Well-Graded Sand with Silt (135 - 145)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl. There is more gravel (~15% to 20%) in the 142-145 foot section.					
140				B/W-27D@140-145				
145		SC	**Clayey Sand with Gravel (145 - 149)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
150		SP	**Poorly Graded Sand (149 - 151.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% coarse grain sand to 5mm and ~10% clay and silt. The sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SC	**Clayey Sand with Gravel (151.5 - 155)** Moist, very dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~30% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
155		SM	**Silty Sand (155 - 160)** Moist to saturated, dense, no odor. Primarily fine sand with ~10% medium grain sand to 1mm and ~45% clay and silt. The sand is angular to subangular. The fines are nonplastic to low plasticity and toughness, have a brownish gray color, and do not react to HCl.					
160		SM	**Silty Sand (160 - 162.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~25% clay and silt. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
		SC	**Clayey Sand (162.5 - 164.5)** Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm ~4% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
165		SP-SM	**Poorly Graded Sand with Silt (164.5 - 170)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
170		CL	**Sandy Lean Clay (170 - 179)** Moist, very dense, no odor. Primarily silt and clay with ~10% medium grain sand to ~1mm and ~35% fine grain sand. The sand is angular to subangular. The fines have high plasticity, have a brown color, and do not react to HCl.	B/W-27D@166-171				
175								
180		SM	**Silty Sand (179 - 184.5)** Dry to moist, very dense, no odor. Primarily medium to fine sand with ~5% coarse grain sand to 5mm and ~40% clay and silt. The sand is angular to subangular. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.	B/W-27D@180-185				
185		CL	**Lean Clay with Sand (184.5 - 186)** Dry to moist, very dense, no odor. Primarily silt and clay with ~50% medium to fine grain sand with a maximum grain size of 2 mm. The sand is angular to subangular. The fines have moderate to high plasticity, are moderately tough, have a light brown color, and do					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
		SW-SM	not react to HCl. **Well-Graded Sand with Silt (186 - 190)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
190		CL	**Lean Clay (190 - 192)** Moist, very dense, no odor. Primarily silt and clay with ~50% medium to fine grain sand to 1 mm. The sand is angular to subangular. The fines have medium plasticity and toughness, have a brown color, and do not react to HCl.					
		SC	**Clayey Sand (192 - 197)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~25% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
195								
		SC	**Clayey Sand (197 - 201)** Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
200								
		SC	**Clayey Sand (201 - 204)** Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~40% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and do not react to HCl.					
		CL	**Lean Clay (204 - 211)** Dry to moist, very dense, no odor. Primarily silt and clay with ~15% medium grain sand to 1mm and ~35% fine grain sand. The sand is angular to subangular.					
205								

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			The fines have medium plasticity and toughness, and do not react to HCl.					
210		SP-SM	**Poorly Graded Sand with Silt (211 - 217.5)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 5 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
215		SW	**Well-Graded Sand with Gravel (217.5 - 220)** Saturated, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.	B/W-27D@215-220				
220		SP-SM	**Poorly Graded Sand with Silt (220 - 222)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		CL SM	**Lean Clay with Sand (222 - 222.5)** Dry to moist, very dense, no odor. Primarily silt and clay with ~50% medium to fine grain sand to 2 mm. The sand is angular to subangular. The fines have moderate to high plasticity, are moderately tough, and do not react to HCl.					
			Silty Sand (222.5 - 225) Moist, dense, no odor. Primarily medium to fine sand					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
			with ~5% gravel to 5 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
225		SW-SM	**Well-Graded Sand with Silt (225 - 233)** Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
230								B/W-27D screened from 230 to 250 feet
		SC	**Clayey Sand (233 - 235)** Dry to moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~35% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
235		SW	**Well-Graded Sand (235 - 246)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 25 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
240				B/W-27D@240-245				

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
245								
		SC	**Clayey Sand (246 - 247.5)** Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~20% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SP	**Poorly Graded Sand (247.5 - 250)** Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~10% clay and silt. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
250			Bottom of Borehole at 250 feet below ground surface.					